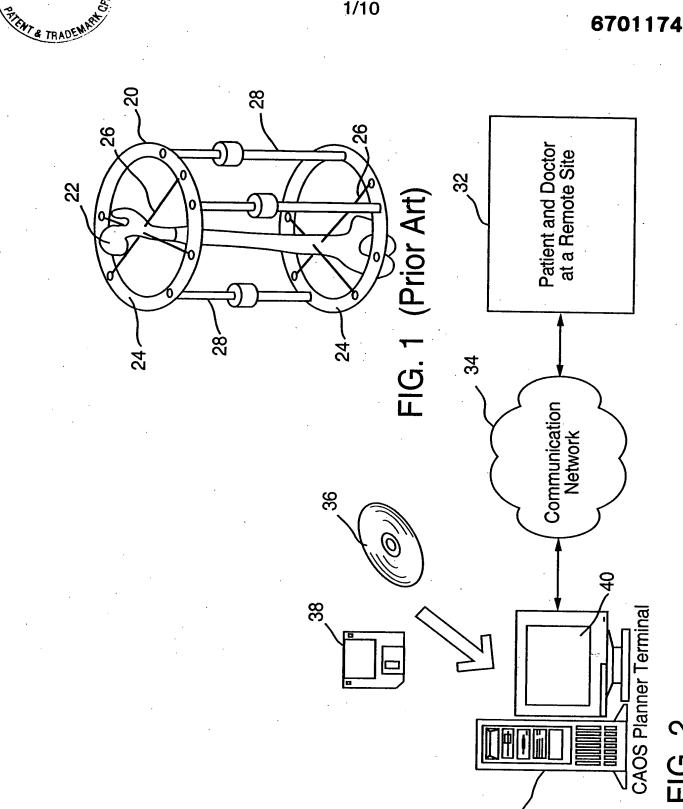
JUN 1 6 2003

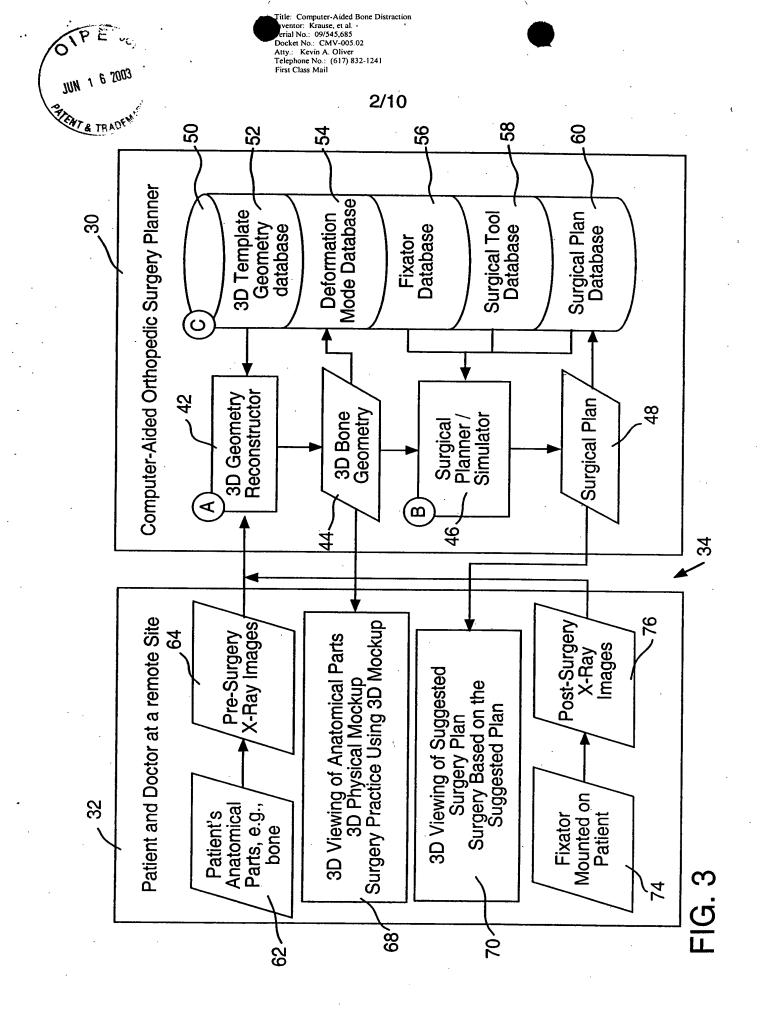






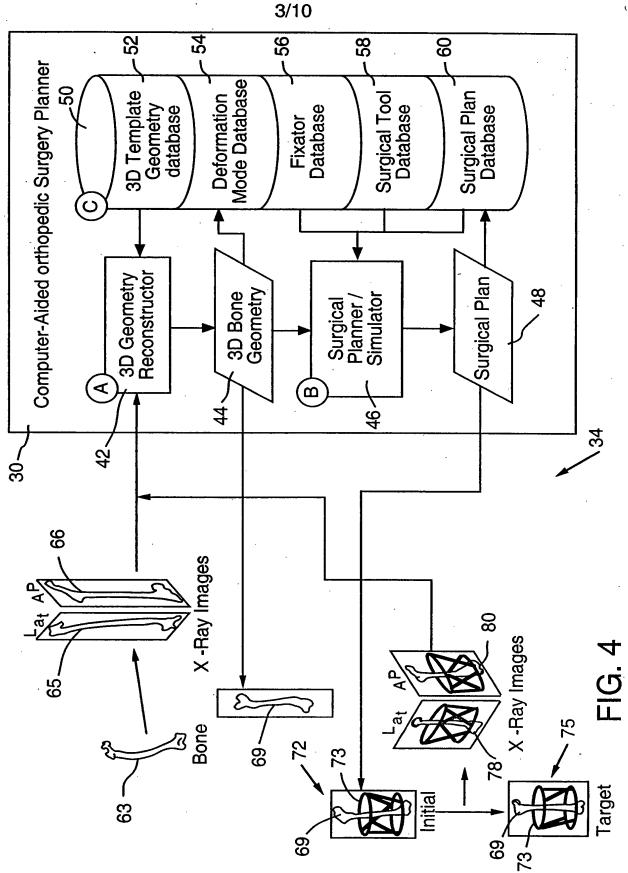


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Title: Computer-Inventor: Krause, Serial No.: 09/54; Docket No.: CMV Atty: Kevin A. C Telephone No.: (6 First Class Mail

Title: Computer-Aided Bone Distraction Inventor: Krause, et al. Serial No.: 09/545,685 Docket No.: CMV-005.02 Atty.: Kevin A. Oliver Telephone No.: (617) 832-1241 First Class Mail



Inventor: Krause, et al. Inventor: Krause, et al.
Serial No.: 09/545,685
Docket No.: CMV-005.02
Atty.: Kevin A. Oliver
Telephone No.: '(617) 832-1241
First Class Mail 4/10 82 Start. JUN 1 6 2003 Read an X-Ray Image 84 and Camera Position TRADEN Fiducial Geometry Extraction on X-Ray Image Identification of Corresponding 88 Fiducial Geometry on 3D Template Geometric Model Optimization of 3D Positioning and 90 Scaling Parameters by Rigid Motion + Scaling 93 3D Template 92 No Geometry Update Find an Optimum 95 Projection of 3D Yes **TemplateGeometry** Onto 2D X-Ray Image Update 3D Model With New 94 Positioning and Scaling Matching **Parameters** Error Calculation 98 Optimization of Free-Form **Deformation Parameters With** 96 Adaptive Model Refinement 100 No Find an Optimum Yes 102 Update 3D Model With New **Deformation Parameters** Yes .104 More X-Ray Image

No

FIG. 5

End

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Title: Computer-Aided Bone Distraction

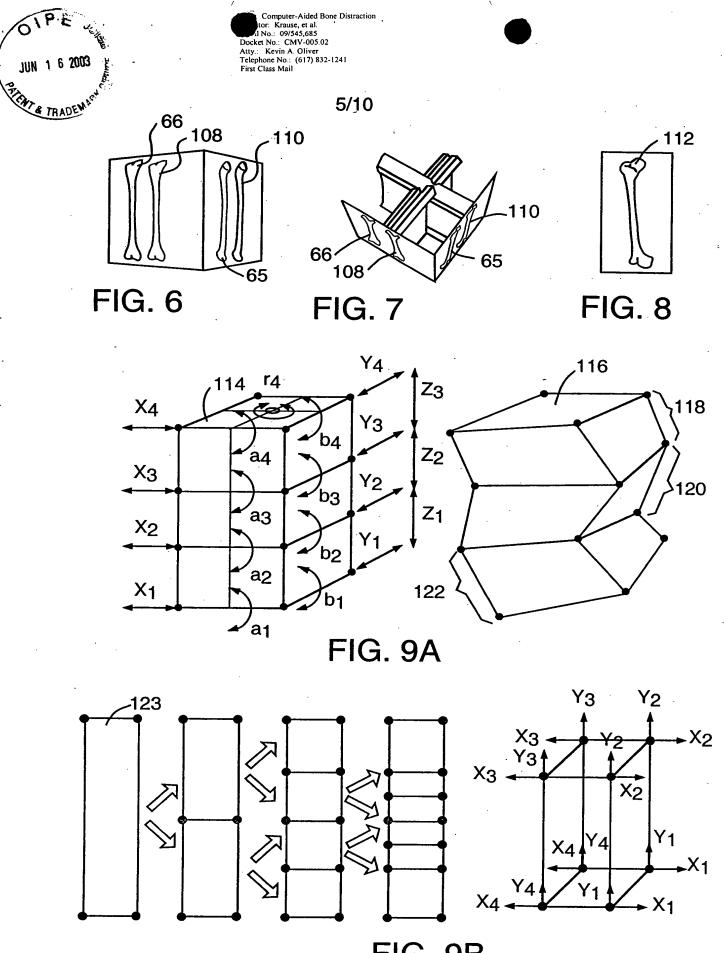


FIG. 9B

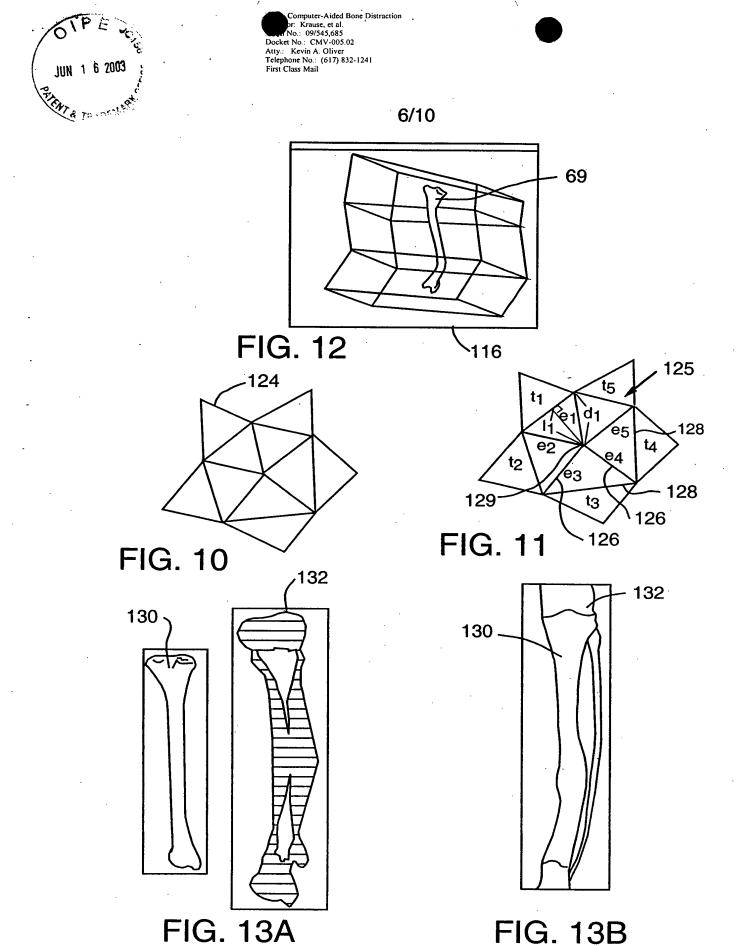


FIG. 13B



kle: Computer-Aided Bone Distraction Ventor: Krause, et al.
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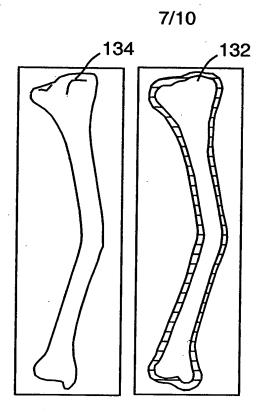


FIG. 14A

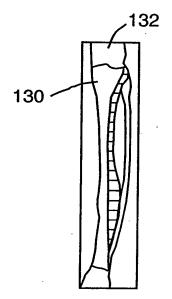
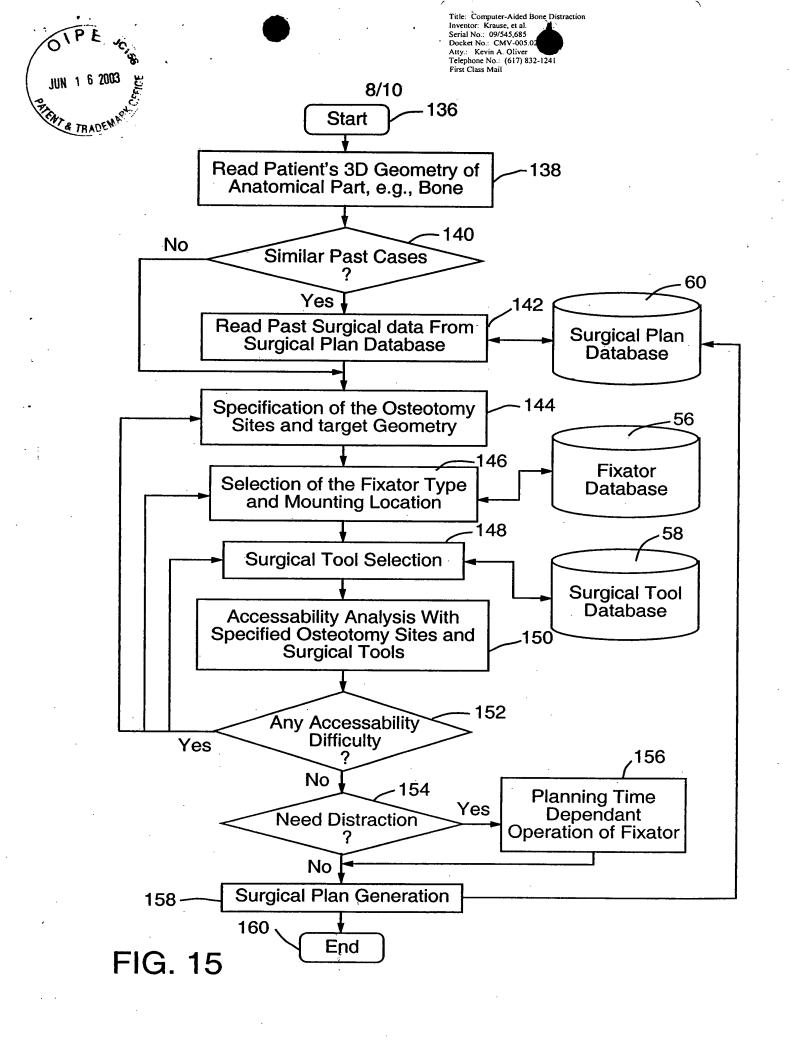


FIG. 14B



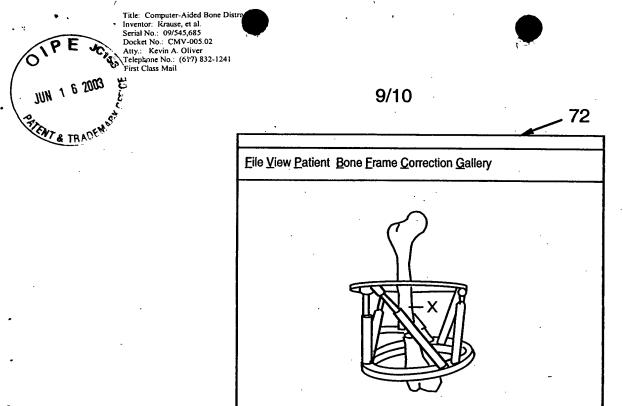


FIG. 16

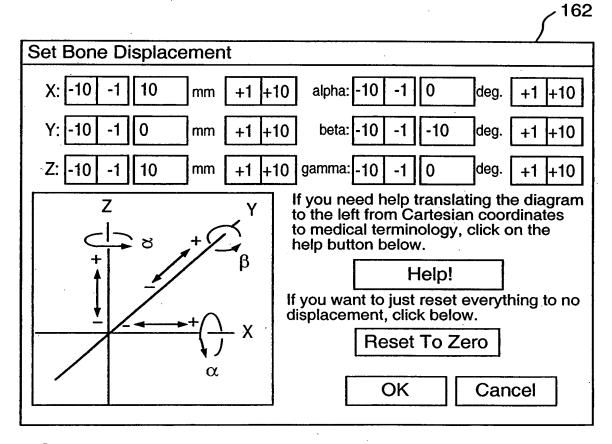


FIG. 17



Title: Computer-Aided Bone Distraction ventor: Krause, et al.

rial No.: 09/545,685
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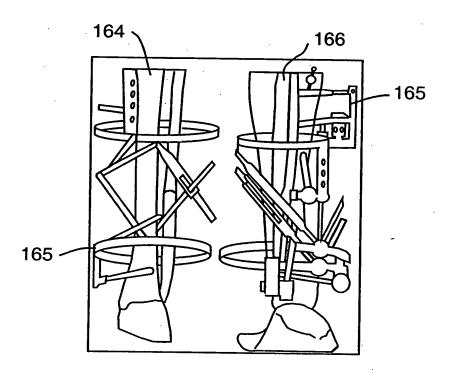


FIG. 18

